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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P 5153 PC00	FOR FURTHER ACT	ON See Notification	on of Transmittal of International kamination Report (Form PCT/IPEA/416)				
International application No. PCT/IS 03/00012	International filing date (day	/month/year)	Priority date (day/month/year) 14.03.2002				
International Patent Classification (IPC) or both national classification and IPC							
G07C5/08							
Applicant							
ND A ISLANDI EHF. et al.	ND A ISLANDI EHF. et al.						
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total							
This report is also accompanies been amended and are the (see Rule 70.16 and Section	ANNIEVES, i.e. sheets of the description, claims and/or drawings which have						
These annexes consist of a total	of 17 sheets.						
3. This report contains indications	relating to the following ite	ms:					
I ⊠ Basis of the opinion							
II ☐ Priority		volty inventive ste	n and industrial applicability				
		velty, inventive ste	p and industrial applicability				
IV ☐ Lack of unity of inve	ntion	h was mared to morrolltre	inventive step or industrial applicability;				
V ⊠ Reasoned statemen citations and explan	t under Rule 66.2(a)(ii) Wit ations supporting such sta	n regard to novelly tement	, inventive step or industrial applicability;				
VI Certain documents	cited						
VII Certain defects in the international application							
VIII	s on the international appli	cation	•				
Date of submission of the demand		Date of completion	of this report				
08.10.2003		24.06.2004					
Name and mailing address of the internal preliminary examining authority:	John State Printers						
European Patent Office D-80298 Munich Tal +49 89 2399 - 0 Tx: 52	23656 epmu d	Kemény, M Telephone No. +49	189 2399-7941				
Fax: +49 89 2399 - 4465		r eleptione No. +49	00 2003 73 73				





International application No.

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ı	Ba	sis	of	the	re	od	rt

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages			
	1, 5,	7, 13-15, 18	as published		
	2, 4,	6, 8, 10-12, 16, 17	filed with telefax on 21.05.2004		
	3, 9		filed with telefax on 04.06.2004		
	Clai	ms, Numbers			
	1-36	5	filed with telefax on 04.06.2004		
	Dra	wings, Sheets			
	1/4-	4/4	as published		
2.	With lang	n regard to the langua juage in which the inte	ge, all the elements marked above were available or furnished to this Authority in the rnational application was filed, unless otherwise indicated under this item.		
	These elements were available or furnished to this Authority in the following language: , which is:				
		the language of a trar	nslation furnished for the purposes of the international search (under Rule 23.1(b)).		
		the language of public	cation of the international application (under Rule 48.3(b)).		
		the language of a trar Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under		
3.	Witl inte	h regard to any nucleo rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:		
		contained in the inter	national application in written form.		
		filed together with the	international application in computer readable form.		
		furnished subsequent	tly to this Authority in written form.		
		furnished subsequen	tly to this Authority in computer readable form.		
		in the international ap	ne subsequently furnished written sequence listing does not go beyond the disclosure oplication as filed has been furnished.		
		The statement that the listing has been furnished	ne information recorded in computer readable form is identical to the written sequence shed.		
4.	The	e amendments have re	esulted in the cancellation of:		
		the description,	pages:		
		the claims,	Nos.:		
		the drawings,	sheets:		

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5.		been considered to go beyond the disclosure as filed (Aule 70.2(c)).				
		(Any replacement sheet contain report.)	ing su	ch amendme	nts must be referred to under item 1 and annexed to this	
6.	Add	itional observations, if necessary	/ :		•	
111	Non	-establishment of opinion with	h rega	rd to novelty	y, inventive step and industrial applicability	
1.	T I	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- ious), or to be industrially applicable have not been examined in respect of:				
		the entire international applicati	on,			
	\boxtimes	claims Nos. 22,23				
		because:				
		not require an international pre-	ıımınar	y examination		
the description, claims or drawings (indicate particular elements below) or said claims Nos. 2 unclear that no meaningful opinion could be formed (specify):				ular elements below) or said claims Nos. 22,23 are so d <i>(specify)</i> :		
		see separate sheet				
		the claims, or said claims Nos. could be formed.	are so	inadequately	y supported by the description that no meaningful opinion	
		no international search report h	nas be	en establishe	d for the said claims Nos.	
2.	 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 				nnot be carried out due to the failure of the nucleotide and/ dard provided for in Annex C of the Administrative	
		the written form has not been f	iurnish	ed or does no	ot comply with the Standard.	
		the computer readable form ha	as not l	been furnishe	ed or does not comply with the Standard.	
٧	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1	. Statement					
	No	velty (N)	Yes: No:	Claims Claims	1-21,24-36	
	Inv	ventive step (IS)	Yes: No:	Claims Claims	1-21,24-36	
	Ind	dustrial applicability (IA)	Yes: No:	Claims Claims	1-21,24-36	

2. Citations and explanations





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see separate sheet

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EXAMINATION REPORT - SEPARATE SHEET

1 Prior Art

Reference is made to the following documents:

Ð1:	US 2002/029109 A1 (TSOI LEO S C ET AL) 7 March 2002 (2002-03-
	07)

US 2001/047244 A1 (HARRISON CHRISTOPHER G ET AL) 29 D2: November 2001 (2001-11-29)

EP-A-0 545 636 (NAVSYS CORP) 9 June 1993 (1993-06-09) D3:

US-A-6 005 513 (HARDESTY W MARK) 21 December 1999 (1999-12-D4: 21)

D5: US-A-6 115 655 (EVANS PAUL H ET AL) 5 September 2000 (2000-09-05)

EP-A-1 158 273 (DATA TEC CO LTD) 28 November 2001 (2001-11-D6: 28)

US-A-5 787 384 (JOHNSON GREGORY BENGT) 28 July 1998 (1998-D7: 07-28)

US-A-6 064 970 (HEINEN JOHN PATRICK ET AL) 16 May 2000 (2000-D8:

US-A-5 736 962 (TENDLER ROBERT K) 7 April 1998 (1998-04-07) D9:

US-A-4 402 049 (GRAY JACK) 30 August 1983 (1983-08-30) D10:

D11: WO 98/43192 A (SCIENTIFIC ATLANTA) 1 October 1998 (1998-10-01)

2 Summary

- No opinion could be established on claim 22 and 23, as this claim is massively 2.1 unclear. Further, claims 22, 26, 30-31 and claim 34 are also not clear, thus not meeting the requirements of Article 6 PCT.
- 2.2 Claims 1-21 and 24-36 are novel and inventive within the meaning of Article 33(2)(3) PCT, and therefore meet the requirements of Article 33(1) PCT.



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Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 22 and 23 3

> Claim 22, claiming the moving object to be an airplane, seems to be depending on other claims, but it is not stated in the documents on file on which claims this claim is depending. The same reasoning will be applied to claim 23, which is dependent on claim 22. Consequently, an opinion cannot be established on these two claims.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 4 Novelty and Inventive Step
- Independent Claim 26 4.1

The document D1 discloses (the references in parentheses applying to this document):

- a registration system for determining a track record of a moving object by 1) determining at least one characteristic property of the object ("(...) a vehicle operation and position recording system (...)", [0002]), the system comprising
- means for receiving at least three GPS coordinates, each of the coordinates 2) comprising the current position of the moving object ant the current time, at which the moving object is at the current position ("... utilizing a global positioning system", [0002]);
- means for storing said coordinates data in a coordinates data storage means 3) ("(...) records positional and operational data of the vehicle. The recording device includes a GPS receiver, a control unit and a storage deice", [0005]);
- utilizing the at least three GPS coordinates data for determining said at least 4) one characteristic properties of the moving object ("(...) provides in-vehicle recording device with such status and operational information as vehicle velocity, distance travelled, amount of fuel remaining and engine temperature.",[0018]);
- and thereby obtaining a track record for the moving object (implicit); 5)





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- wherein said track record comprises information related to: 6)
 - direction of movement
 - velocity

("Based on the time difference between positions, a velocity of the base vehicle can also be computed.",[0022])

7) and wherein said track data are utilized to create user information ("The stored data of in-vehicle recording device 100 can be used to determine whether the vehicle has been operated in excess of legal speed limit or whether the vehicle has been driven outside a permissible area", [0022]).

The difference between claim 26 and D1 is that the track record further comprises information related to perpendicular acceleration. Therefore, the claim must be considered novel within the meaning of Article 33(2) PCT.

From this difference, the following technical problem to be solved by the person skilled in the art can be formulated as:

Having registration system for determining a track record of a moving object, how to determine in which manner the object is steered and how accurately it maintains it's route.

Neither D1 nor the other documents cited in the international search report reveals the perpendicular (or lateral) acceleration as being an important physical factor, nor how this acceleration is being obtained.

Therefore, claim 26 involves an inventive step within the meaning of Article 33(3) PCT. The requirements of Article 33(1) PCT are met.

4.2 Independent Claim 1

The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claim 1, which therefore is also considered new and inventive.